

# GM44-UB-USB<sup>®</sup>

< USB >

GPS MOBILE LOCATOR

USER'S MANUAL



# Contents

<b>INTRODUCTION &amp; APPLICATIONS.....</b>	<b>3</b>
<b>PACKAGE CONTENTS.....</b>	<b>4</b>
<b>GETTING STARTED.....</b>	<b>5</b>
<b>OPERATING PROCEDURE.....</b>	<b>6</b>
<b><i>SPECIFICATION</i>.....</b>	<b>7</b>
<b><i>APPENDIX</i> .....</b>	<b>8</b>
<b><i>WARRANTY</i>.....</b>	<b>9</b>

# **Introduction**

**Welcome to GM44-UB-USB GPS Mobile Locator user's manual.**

***Congratulation on your purchase of the GM44-UB-USB® Mobile Locator GPS receiver/antenna. This is the latest in Plug-Navigate-Position innovation from SAN JOSE Technology, manufacturer of OEM GPS receiver & antenna around the world.***

***This new concept of Mobile navigation solution is using the devise to integrate with your Personal Computer and map software to display your real time location on the monitor.***

***The GM44-UB-USB is an all-weather rugged design product for all applications. Before you get started with your GM44-UB-USB®, make sure to read the PC hardware requirements to run the Mapping software.***

## **Applications**

- ◇ Navigation and positioning
- ◇ Finding streets and routes via GPS map software
- ◇ Travel/track planning
- ◇ Application for Marine Navigation
- ◇ Fleet management GPS system
- ◇ In-car navigating/locating for public safety and emergency  
AVL GPS function

## **Package Contents**

*After opening your package, make sure that the following items are not missing or damaged.*

- *GM44-UB-USB® Mobile Locator*
- *User's Manual and Driver's CD*

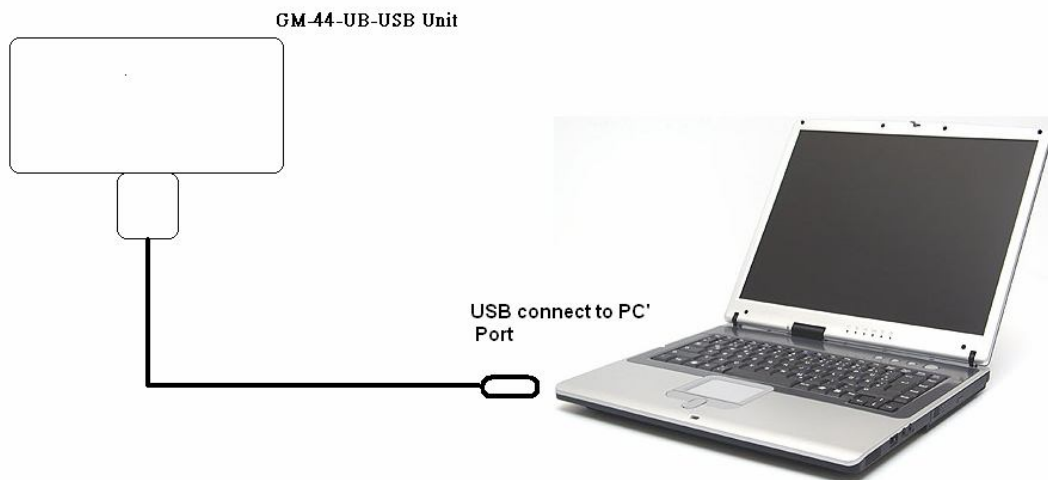
*If above items are missing or damaged, contact SAN JOSE Technology immediately at Tel: 886-2-2269-4456 Fax: 886-2-2269-4451*

## Getting Started

*This section will introduce you to simply outfit your new GM44-UB-USB® GPS Mobile locator to your PC.*

*GM44-UB-USB® is a compact GPS receiver/antenna design for general purpose navigation and position locating when integrated with a computing device for mapping display (Notebook PC, PDA or Palmtop).*

**Hardware standard layout is shown below:**



**Hardware Requirement:** *Computer 486 or Faster CPU, VGA Display card, Sound board (optional), at least 16MB DRAM, CD-ROM drive, Windows OS, at least a USB port available.*

***Power supply: DC 5V from PC's USB port.***

# **Operating Procedure**

## ***Caution***

**DO NOT TRY TO DO STEPS, WHILE VEHICLE IS IN MOTION.  
AND KEEP YOUR EYES ON THE ROAD**

***Step 1:*** Before installing the USB driver to your computer, please don't plug your GPS USB product to your computer.

***Step 2:*** Place the CD attached in the package into your CD-ROM.

***Step 3:*** Go to USB Driver/ UB Series/USB\_to\_COM\_Installation\_GPS\_FV-4H.pdf.

***Step 4:*** Read the driver installation and make sure that you have never installed the driver before.

***Step 5:*** Click on the "libusb-win32-filter-bin-20041118.exe" to start installing driver.

***Step 6:*** Follow the instruction in the USB\_to\_COM\_Installation\_GPS\_FV-4H.pdf.

***Step 7:*** When installation is successful, indicate Com port number when you try to use your USB-GPS product as a GPS device.

## ***Notice***

**1. For more detailed installation instruction, please refer to USB driver installation instruction**

# Specification

<b>PHYSICAL CONSTRUCTION</b>		<b>PERFORMANCE</b>		
Dimension	56mm (Diameter) x 28 mm (Height)	Built-in Antenna element	High-reliability ceramic patch	
Weight (Without cable)	87 gram	Sensitivity	-150dbm	
		SBAS	Support WAAS, EGNOS	
Receiving frequency	1575.42MHZ, C/A code	Receiver architecture	50 parallel channels	
Enclosure	High impact, corrosion-proof	Start-up time	1.0 sec. typical (hot start) 32.0 sec. typical (warm start) 32.0 sec. typical (cold start)	
Mounting	Permanent/Pole mount	Position accuracy	Autonomous	<2.5 m
			DGPS (WAAS, EGNOS, RTCM)	<2.0 m
Construction	Fully waterproof structure	Velocity accuracy	0.1 m/s	
<b>ENVIRONMENTAL CONDITIONS</b>		Update Rate	1Hz standard	
Temperature	Operating: -30 ~ +75 °C	Power Supply	USB 5V	
	Storage: -40 ~ +85 °C			
<b>COMMUNICATION</b>		Current Consumption	61mA	
Protocol	NMEA, UBX binary	Baud Rate	Default at 4800 bps and 2400/4800/9600/38400/57600/115200 bps are selectable by using utility	
Signal level	USB			
<b>INTERFACE CAPABILITY</b>		<b>POWER CABLE</b>		
Standard Output Sentences	GSA*5, GSV*5, GGA, RMC, VTG	Length	5m	

# APPENDIX

## Troubleshooting Tips.

1. No updated display in your PC while moving.

- *Check cable connections and COM port setting AT Control Panel/System Properties/Device Manager/Com-Port.*
- *Check raw data by using Window Terminal 4800bps*

2. No ASCII NMEA data when running terminal program in COM-n,4800 8N1

- *Check Control Panel/System Properties/Device Manager/Com-Port.*

3. Navigational software does not auto detect the GPS receiver

- *Check Installation & If the USB connecter connects to PC*

4. If your PC recognizes GM44-UB-USB as a mouse

- *Please remove the GM44-UB-USB from the USB Port of your PC or device and plug it back. If it still happens, please reinstall the USB drive.*

5. No GPS data after program initialize.

- *Check USB connection.*
- *Check for GPS obstruction toward the sky.*

6. GPS data are visible but no activity on the MAP SOFTWARE.

- *Check to see if the Map software desire NMEA sentences (GGA, GLL, GSA, GSV, RMC, VTG, ZDA) are present in viewing using Terminal Windows set at 4800bps.*



## **Limited Warranty**

GM44-UB-USB® is a GPS receiver as part of navigational aids, and is not intended to replace other means of navigation or aids.

SAN JOSE TECHNOLOGY, INC. warrants this GPS receiver and accessories to be free of defect for a period of 12 months from the date of original purchase.

**THIS WARRANTY APPLIES ONLY TO ORIGINAL PURCHASE.**

In any event of a product defect while in normal usage, SAN JOSE TECHNOLOGY will replace or repair the product with no charge to the original purchaser for parts and labor. However, SAN JOSE TECHNOLOGY reserves the right of determination to replace or repair the defective product. The replacement or repaired product will be warranted for total of (ninety) 90 days from the date of return shipment, or for the balance of the original warranty, whichever is longer.

### **PURCHASER'S DUTIES**

The purchaser must return the GPS receiver postpaid, with proof of the date of original purchase with the return address to:

### **SAN JOSE TECHNOLOGY, INC.**

11F., NO. 2, Sec. 4, JHONGYANG ROAD, TUCHENG CITY, TAIPEI  
HSIEN, TAIWAN, R.O.C.

TEL: 886-2-2269-4456

FAX: 886-2-2269-4451

**WWW.SANAV.COM**